

1. MURASHKO, Yu. V.: SHADRUKHINA, Ye. A.
2. USSR (600)
4. Dairy Cattle
7. For further improvement in milk production of state-farm cattle. Soborshiv., 14, no. 12, 1952.
9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

LEMESHEV, M.Ya.; LAGUTIN, N.S.; GREKULOV, L.F.; KRASNOV, V.D.; PRONIN, A.A.; YAKOVLEVA, T.V.; ANAN'YEVA, L.F.; KOLOSOVA, Ye.Ya.; MURASHKO, Ye.V.; GABIDULLIN, V.M.; POPOV, N.I.; POPOV, N.M.; STUDENKOVA, N.M.; SMYSLOVA, A.S.; PANIN, N.S., red.; PANIN, N.S., red.; GERASIMOVA, Ye.S., tekhn.red.

[Methods for creating an abundance of agricultural products in the U.S.S.R.] Puti sozdaniia izobilii sel'skoi khoziaistvennykh produktov v SSSR. Moskva, Ekonomizdat, 1963. 317 p. (MIRA 16:6)

1. Sektor ekonomicheskikh problem sel'skoi khosyaystva Nauchno-issledovatel'skogo ekonomicheskogo instituta Gosplana SSSR (for all except Panin, N.S., Panin, N.S., Gerasimova).
(Farm produce)

LEVYKIN, Ye.D., inzh.; MURASHOV, A.F., inzh.

Construction of a tower-type reinforced concrete head frame and simultaneous use of the shaft for conducting mining operations. Izv.vys.ucheb.zav.;gor. zhur. 6 no. 12:14-20 '63. (MIRA 17:5)

1. Trest Boksitstroy. Rekomendovana kafedroy shakhtnogo stroitel'stva Sverdlovskogo gornogo instituta.

DESYATNIK, E.M., inzh., red.; YELISEYEVA, Ye.Ye., inzh., red.;
MURASHOV, A.G., inzh., red.; GUSEV, V.I., inzh., red.;
 MALAKHOV, A.Ye., inzh., red.; PETROV, G.P., inzh., red.;
 FILIMONOV, S.Ye., inzh., red.; KOKKO, M.A., inzh., red.;
 ANDREYEV, L.N., inzh., red.; TURIANSKIY, M.A., inzh., red.;
 ZERENKOV, A.D., inzh., red.

[Collections Nos. 10, 20, 31, and 42 of standard district
 uniform estimates for construction work] Sborniki No.10,
 20, 31 i 42 edinykh raionnykh edinichnykh raschenok na
 stroitel'nye raboty. Moskva, Stroizdat, 1965.

(MLA 18:10)

1. Russia (1923- U.S.S.R.) Gosudarstvennyy komitet po de-
 lam stroitel'stva. 2. Gosstroy SSSR (for Desyatnik, Gusev,
 Filimonov). 3. Nauchno-issledovatel'skiy institut ekonomiki
 stroitel'stva Gosstroya SSSR (for Yeliseyeva, Murashov,
 Kokko, Andreyev, Malakhov, Turianskiy). 4. Gosudarstvennyy soyuz-
 nyy institut po proyektirovaniyu spetsial'nykh sooruzheniy, zdaniy,
 sanitarno-tekhnicheskikh i energeticheskikh ustroystv dlya predpri-
 yatiy khimicheskoy promyshlennosti (for Petrov). ~~Sentral'nyy~~ **Sentral'nyy**
 nauchno-issledovatel'skiy i proyektno-eksperimental'nyy institut
 promyshlennykh zdaniy i sooruzheniy (for Zerenkov).

MURASHOV, A.I., inzhener; SIDANOV, I.A., inzhener.

Increasing the serviceability of overhead lines with 10-503 cutouts.
Elek. sta. 28 no. 5:85 My '57. (MIRA 10:6)
(Electric cutouts)

MURASHOV, A. M., KLEMOV, N. A.

Gearing

Universal pneumatic and hydraulic drives for machine tool equipment, Stan. 1 instr. 23
No. 3, 1952.

Monthly List of Russian Accessions, Library of Congress, July 1952. Unclassified.

MURASHOV, A.M., inzhener; KLIMOV, N.A., inzhener.

Universal power drive and universal machine attachments. [Izd]

LONITOMASH 25:28-42 '52.

(MLRA 8:2)

(Machine tools)

25(2)

PHASE I BOOK EXPLOITATION SOV/2202

Murashov, Aleksey Mikhaylovich, and Nikolay Aleksandrovich Klimov

Vysokoproizvoditel'nyye prispособleniya k metallovezhushchim stankam
(High-productivity Fixtures for Metal-cutting Machine Tools)
Moscow, Oborongiz, 1959. 150 p. 11,100 copies printed.

Reviewer: Kh. L. Bolotin, Candidate of Technical Sciences; Ed.:
V. V. Kuz'min, Engineer; Ed. of Publishing House: E. A.
Shekhtman; Tech. Ed.: N.A. Pukhlikova; Managing Ed.: A. I.
Sokolov, Engineer.

PURPOSE: The book is intended for designers of manufacturing
equipment, process engineers, and foremen and workers of lot-
production plants. It may also be useful to students of ma-
chine-building vtuzes.

COVERAGE: The book summarizes the experience of designers at
scientific research institutes and plants of the aircraft in-
dustry in the field of design and installation of high-prod-
uctivity fixtures for metal-cutting machine tools. The fixtures

Card 1/4

High-productivity Fixtures (Cont.)

SOV/2202

described are universal and are to be used with mechanized snap-action clamping devices. A large-scale grouping of machine parts is presented, and typical fixture constructions for each group are shown. Recommendations are made for testing, setting, and installation of universal fixtures. The following personalities are mentioned: M.I. Gorodnichiy, G.I. Larichev, A. K. Ivanov, A.S. Zakharova, S.I. Kameichev, V.D. Rassadkin, V.I. Fedorov, P.P. Sass, L.Ya. Ivanova, S.L. Goder, G.A. Mametov, A.N. Lebedev. There are no references.

TABLE OF CONTENTS:

Foreword	3
Ch. I. Characteristics of Fixtures Employed in Lot and Mass Production	5
Ch. II. Unitizing the Machine-tool Fixtures	8
Card 2/4	

High-productivity Fixtures (Cont.)

SOV/2202

Ch. III.	Grouping of Parts Machined on Metal-cutting Machine Tools	19
Ch. IV.	Universal Fixtures for Machines With Small Number of Stations	23
Ch. V.	Universal Fixtures for Multistation Machines	76
Ch. VI.	Design of Special Equipment Supplementing Group and Universal Fixtures	90
Ch. VII.	Group (Specialized) Fixtures	104
Ch. VIII.	Universal Actuators for Fixtures	117
Ch. IX.	Control Apparatus and Accessories for universal fixtures and actuators	132
Ch. X.	Testing and Introduction of Universal Fixtures	143

Card 3/4

High-productivity Fixtures (Cont.)

SOV/2202

Ch. XI. Economic Efficiency of Universal Fixtures

147

AVAILABLE: Library of Congress (TJ1187.M8)

Card/4/4

GO/ec
10-9-59

28(3) *

S/028/60/000/ 01/011/033
D041/D002

AUTHOR: Murashov, A.M., and Klimov, N.A.

TITLE: Normalized Universal Setting Attachments

PERIODICAL: Standartizatsiya 1960, Nr 1, pp 34-35 (USSR)

ABSTRACT: The normalization (standardization)[†] of machine tool attachments goes three ways: 1) normalization of attachment parts; 2) of units, and 3) of the attachment design as a whole. The advantages of standardized attachments are stressed. A special jig (Figure 1) for drilling geometrically similar parts is shown as an example of a machine tool with a basic and an interchangeable part. The basic part consists of the power cylinder and the body, which are used until they are completely worn. The described attachment design principle may be applied for machining any other part groups. The exchangeable parts of the jig are shown in a photo, together with machine

Card 1/2

Normalized Universal Setting Attachments

S/028/60/000/01/011/033
D041/D002

parts for which they may be used. There are 2
photographs. ✓

Card 2/2

UR/

ACC NR: AM6032824

(A)

Monograph

Dubovskiy, B. G.; Kamayev, A. V.; Kuznetsov, P. M.; Vladykov, G. M.; Gurin, V. N.;
Murashov, A. P.; Markelov, I. P.; Kochergin, V. P.; Vaynagin, A. A.; Sviridenko,
V. Ya.; Dlyev, L.V.; Bogatyrev, V.K.; Vavilov, V. V.; Prolov, V. V.

Critical parameters of systems with fissionable materials and nuclear safety; a
handbook (Kriticheskiye parametry sistem s delyashchimiya veshchestvami i
yadernaya bezopasnost'; spravochnik) Moscow. Atomizdat. 1966. 225 p. biblio.,
diagrams, tables. 9000 copies printed.

TOPIC TAGS: nuclear safety, nuclear reactor, homogeneous nuclear reactor,
heterogeneous nuclear reactor, chain reaction

PURPOSE AND COVERAGE: This handbook is intended for specialists concerned with
the problems of assuring nuclear safety as well as for persons calculating, de-
signing, operating, and studying the physics of nuclear reactors of various types,
as well as for students in associated departments. The book discusses methods of
creating and maintaining conditions which will exclude the possibility of an
accidentally chain reaction during the processing, storage, and transportation of
fissionable materials. The book is based mainly on the results of studies pub-
lished before 1965. In addition to information on critical parameters of systems
with fissionable materials, the authors considered it useful to include in the
handbook the fundamental concepts of criticality, principles for assuring nuclear
safety, a review of cases of the occurrence of uncontrolled chain reactions,

Card 1/2

UDC: 621.039.519.4/621.039.58

ACC NR: AM6052824

and the basic standards for nuclear safety. The authors express appreciation to M. P. Rodionov, T. I. Sukhoverkhova, M. A. Gavrilova, and L. V. Antonkina for their valuable assistance. There are 64 references, 30 of which are Soviet.

TABLE OF CONTENTS (Abridged)

From the authors -- 3

Ch. I. Basic concepts of nuclear safety -- 5

Ch. II. Review of experimental data on critical parameters of systems with fissionable materials -- 14

Ch. III. Methods of calculating homogeneous reactors -- 88

Ch. IV. Effect of neutron absorbers on the criticality of systems with fissionable materials -- 142

Ch. V. Criticality of systems of interacting subcritical assemblies from fissionable materials -- 169

Ch. VI. Uncontrolled chain reaction outbursts in systems containing fissionable materials -- 202

Ch. VII. Basic standards for assuring nuclear safety -- 214

References -- 223

SUB CODE: 18/

SUBM DATE: 20 May 66/

ORIG REF: 030/

OTH REF: 034

Cord 2/2

MURASHOV, D.A. (g.Kalinin)

Scientific and atheistic education in the astronomy class. Fiz. v
shkole 20 no.3:40-42 My-Je '60. (NIRA 13:11)
(Astronomy--Study and teaching) (Atheism)

BELOKOPYTOV, I.Ye.; BERESNOVICH, V.V.; BERSHADSKIY, L.S.; VEYTS, L.F.;
ZHUKOV, A.G.; IVASHECHKIN, N.V.; KUZEMAN, G.I.; LASHNEV, I.A.;
MURASHOV, F.G.; NIKODIMOV, P.I.; PYATAKOV, L.V.; SAMSONOV, N.N.;
SEBENSKIY, Ye.P.; SINITSYN, N.A.; SOLOPOV, S.G.; STRUKOV, B.I.;
STEBIKHOV, M.I.; TSUPROV, S.A.; CHERNOV, A.A.; CHULYUKOV, M.A.

Ivan Aleksandrovich Monakin. Torf. prom. 37 no. 3:37 '60.

(MIRA 14:1)

(Monakin, Ivan Aleksandrovich, 1908-1960)

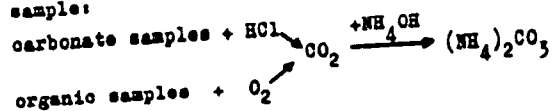
S/186/61/OC3/001/018/020
A051/A129

AUTHORS: Starik, I.Ye., Shamov, V.P., Arslanov, Kh.A., Zharkov, A.P.,
Murashov, G.M.

TITLE: Scintillation technique of counting natural radio-carbon and its
application to the determination of the absolute age

PERIODICAL: Radiokhimiya, v 5, no 1, 1961, 101-113

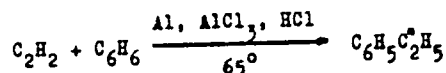
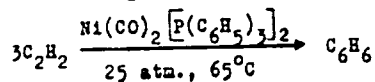
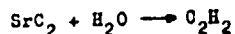
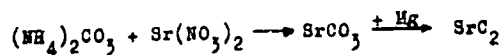
TEXT: The present article deals with a method developed by the authors for
liquid-scintillation counting of natural radio-carbon, intended for deter-
mining the absolute age. The following scheme was used for the chemical
preparation of the sample:



Card 1/8

Scintillation technique of counting ...

S/186/61/003/001/018/020
A051/A129



A coincidence scintillation counter was designed for counting C^{14} , and benzene and ethylbenzene were used as the liquid scintillator solvents, synthesized according to the above-given scheme. Combined with a highly-effective counter these can be used to determine the absolute age up to 37,000 years in the case of ethylbenzene, and 48,000 years in the case of benzene. In selecting a scintillation counting method the authors base their attempts on finding a substance which is easily prepared and does not require large

Card 2/8 6

Scintillation technique of counting ...

S/186/61/003/001/018/020
A051/A129

amounts of carbon, so that the advantages of both the proportionate and scintillation methods could be combined. Ethylbenzene and benzene chosen by the authors as the carriers of the natural carbon activity are said to render the scintillation method applicable to young samples and in the case of old ones increase the sensitivity of the method. Ethylbenzene is recommended from the following considerations: 1) 22.5% from the sample can be introduced into the ethylbenzene molecule; 2) the ethylbenzene molecule itself is an excellent solvent of liquid scintillators, being inferior only to the very best solvents, such as toluene, xylene; 3) its preparation and purification are simple and do not require complex apparatus or reagents difficult to obtain; 4) for its synthesis a relatively low amount of carbon, 8-15 g, is required. The apparatus used by the authors to count natural C^{14} is described: the photomultiplier function at room temperature, the complete amplification of the amplifier is 400. The counting rate of the noise pulses at an effectiveness of the count of natural C^{14} equalling 60-65% is 0.5 pulses/min. An upper level discriminator is used to lower the counting rate of the background determined by the cosmic and external radiations in the given apparatus. Fig 1 is a block-diagram of the described

Card 3/5, 6

Scintillation technique of counting ...

S/186/61/003/001/013/020
A051/A129

apparatus and Fig 2 shows the principal circuit of coincidences. The tubes of the apparatus are fed by stabilized sources of anode and incandescent voltage, and the photomultipliers by a EC-9(VS-9)-type high-voltage source. The positive pulses from the exits of two non-overloaded amplifiers are fed to the inputs of the diode low-level discriminators (λ_2, λ_9 in Fig 2). The limiting (λ_1, λ_8) diodes are used for eliminating the negative pulse outputs fed to the low-level discriminator inputs. The selected photomultiplier should satisfy the following requirements: 1) a high sensitivity of the photocathode, 2) a high total sensitivity, 3) a low noise level, 4) stability over long periods of service, 5) a good temporary resolving power. The adjustment of the counter for the ^{137}Cs spectrum is carried out according to the γ -line of ^{137}Cs . The discriminators of the lower level are installed so that the number of the noise pulses at the output of the circuit of coincidences would be equal to 0.5-1 pulses/min. The sample is counted in a 15.5 cm³-volume cuvette made of optic quartzite. The preparation of ethylbenzene and benzene from the carbon of the investigated material involves the following chemical steps: 1) formation of CO_2 from the sample, 2) production of strontium carbonate from CO_2 of the sample, 3) reduction of the

Card 4/6

Scintillation technique of counting ...

S/186/61/003/001/018/020
A051/A129

strontium carbonate to strontium carbide, 4) decomposition of strontium carbide, separation of acetylene from hydrogen and purification of acetylene, 5) synthesis of ethylbenzene from acetylene, 6) purification of ethylbenzene and benzene. The samples to be measured are carbonates or organic substances (coal, wood, peat, etc.). In both cases the carbon of the sample is separated out in the form of CO_2 . The formation of CO_2 from the carbonate samples is performed by the decomposition of the sample with hydrochloric acid. If the investigated sample is an organic material, the formation of CO_2 is carried out by heating the sample in an oxygen flow. The single synthesis of large amounts of acetylene (up to 30 l) is carried out according to the Suesse method (Ref 4), the main advantage of which is said to be the almost quantitative yield of acetylene (95%). The synthesis of ethylbenzene is carried out according to the method of hydroalkylation of benzene with acetylene in the presence of metallic Al, AlCl_3 , and hydrogen chloride (Ref 16). The authors conducted a complete synthesis of benzene from the investigated material according to Reppe's method (Ref 13). The catalyst for the synthesis of benzene by the given method is a compound of a mixed type having both an organic as well as an inorganic nature: $\text{Ni}(\text{CO})_2 \sqrt{\text{P}(\text{C}_6\text{H}_5)}_2$.

Card 5/8, 6

Scintillation technique of counting ...

S/186/61/003/001/018/020
A051/A129

The latter is produced by the interaction of nickel tetracarbonyl on an ether solution of triphenyl-phosphine at the boiling point of ether. Results of determinations of the absolute age of four samples are listed. A comparison of various methods is made. There are 2 tables, 6 diagrams and 21 references: 4 Soviet-bloc, 17 non-Soviet-bloc.

Figure 2: Principal circuit of coincidences

- (1) - input
 - (2) - output
 - (3) - resistance
 - (4) - v(volt)
 - (5) - discriminator input of the upper level
- (for Fig. 2 see card 8/8)

Card 6/8.6

MURASHOV, G. M.

CA

2

The quantum-mechanical representation of the periodic system of the elements. G. M. Murashov, *Zhur. Obshch. Khim.* 10, 886-892(1946); *J. Gen. Chem. U.S.S.R.* 10, 886-7(1946)(Engl. translation). The connection between the building-up principle and the periodicity of chem. properties is pointed out. Cyrus Feldman

MURASHOV, G. M.

U S S R .

Synthesis of branched acetylenic hydrocarbons. Preparation of 2,2,3,3,6,6-hexamethyl-4-heptyne. A. I. Zakharenko and G. M. Murashov (Leningrad State Univ.). *Zhur. Obshch. Khim.* 23, 1057-6 (1951). This is an ice-cooled mixt. of 160 g. powd. KOH and 200 ml. Et₂O was added over 5 hrs. 0.5 mole Me₂CCl₂CH and 0.5 mole pinacolone in 50 ml. Et₂O; after 15 hrs. the mixt. was hydrolyzed with cooling and the org. layer gave 60% 2,2,3,6,6-pentamethyl-4-heptyn-3-ol, m. 22°, b. 75°, d. 0.8321, n_D²⁰ 1.43742, n_D²⁵ 1.43495, n_D³⁰ 1.43328, n_D³⁵ 1.44810, d₄²⁵ 25.10. This (25 g.) in 5 g. portions was treated with dry HCl with cooling, yielding 86% 2,2,3,6,6-pentamethyl-3-chloro-4-heptyne(I), m. 62°, b. 82°, which hydrolyzed readily on shaking with aq. AgNO₃. I (50 g.) was added to MeMgBr from 50 g. EtBr in 150 ml. Et₂O, the addn. being made with ice-cooling, after which the mixture was set aside for 14 hrs., then refluxed 2 hrs., treated with dil. HCl and the org. layer distd., yielding 55% 2,2,3,3,6,6-hexamethyl-4-heptyne, b. 48°, d. 0.8016, d. 0.7643, n_D²⁰ 1.43326, n_D²⁵ 1.43566, n_D³⁰ 1.43977, n_D³⁵ 1.44523; Raman spectrum given. Ozonolysis gave CH₃CO, Me₂CC(Me)₂CO₂H, m. 182°, whose Ag salt was analyzed, some HCO₂H, Me₂CCO₂H and Me₂CCMe₂C(O)C(O)CH₃, a greenish oil whose abs. spectrum shows max. at 2980, 2980 and 3030 Å. G. M. Kosolapoff

MURASHOV, G. M.

Synthesis of branched diacetylenic hydrocarbons. Prepa-
ration of 2,2,5,5,8,8-hexamethyl-3,6-heptadiene. A. I.
Murashov and G. M. Murashov. J. Gen. Chem. U.S.S.R.
1954, 24, 1000. Translation: See C.A. 50.
11 M 2

MURASHOV, G.M.

✓ Synthesis of branched diacetylenic hydrocarbons. Preparation of 2,2,5,5,8,8-hexamethyl-3,6-nonadiyne. A. I. Zakharova and G. M. Murashov (Leningrad State Univ.). *Zhur. Obshchei Khim.* 25, 1433-4 (1955); cf. C.A. 49, 37834.

—Branched acetylenic hydrocarbons can be prepd. by propargylation of acetylenic Grignard reagents by compds. of the type $R_2CClC \equiv CR$ in the presence of $HgCl_2$ and Cu_2Cl_2 . To 150 g. powd. KOH in 200 ml. dry Et_2O was added, with good stirring at 0° in 4 hrs., 0.5 mole $Me_2CC \equiv CH$, 0.5 mole Me_2CO , and 50 ml. dry Et_2O ; after stirring 12 hrs. the mixt. was treated with H_2O with cooling and the org. layer yielded 88.6% $Me_2CC \equiv CCM_2OH$, b_p 63°, b_r 62°, m 34°, n_D^{20} 1.42448, n_D^{25} 1.42190, n_D^{30} 1.43067, n_D^{35} 1.43901. The alc. treated in 5-10-g. portions with dry HCl with cooling gave 85.5% $Me_2CC \equiv CCM_2Cl$ (I), b_p 72°, n_D^{20} 1.43598, n_D^{25} 1.43322, n_D^{30} 1.44285, n_D^{35} 1.45194 [cf. Busch and Stöve, C.A. 10, 2727 for technique]. $EtMgBr$ from 12 g. Mg, 05 g. $EtBr$, and 200 ml. Et_2O was treated over 4 hrs. with 41 g. $Me_2CC \equiv CH$ in 50 ml. Et_2O with cooling and after 8 hrs. in the cold the mixt. was refluxed until C_4H_4 evolution ceased. The cooled Grignard reagent was then treated with 1 g. Cu_2Cl_2 and 1 g. $HgCl_2$ followed by 40 g. I added with cooling; after stirring 3 days the mixt. was treated with dil. HCl and the org. layer was sep'd. and dist'd. yielding 2 products: 20% $CH_3 \cdot CMeC \equiv CCM_2$, b_p 68°, d_4^{20} 0.7825, d_4^{25} 0.7682, n_D^{20} 1.43851, n_D^{25} 1.43460, n_D^{30} 1.44704, n_D^{35} 1.45697 [Raman spectrum: 149.1(3), 531.0(1), 560.7(1), 883.0(5), 910(2), 1200.1(3), 1376(1), 1444.4(5), 1627(10), 2302.0(10), 2915.9(1), 2967.3(1)] and 80% $Me_2CC \equiv CCM_2 \cdot C \equiv CMe_2$, b_p 82°, b_r 74°, m 46°, d_4^{20} 0.7482, n_D^{20} 1.41735, n_D^{25} 1.41468, n_D^{30} 1.42350, n_D^{35} 1.43293 [Raman spectrum in molten state: 130(2), 166.4(2), 445.5(0.5), 547.5(1), 608.9(1), 741.6(0.5), 886.5(3), 919.5(2), 1190.3(1), 1195.8(4), 2220.3(5)]. Ozonolysis of the latter gave Me_2CCO_2H , $Me_2C(CO_2H)_2$ and hydroxyisobutyric acid, m 78°. Hydrogenation over Pd required 3 moles of H_2 . The diyne was unattacked after 3 days with 1% $KMnO_4$. G. M. Kosolapoff

Murashov, G.M.

W Synthesis of branched triacetylenic hydrocarbons. Preparation of 2,2,5,5,8,8,11,11-octamethyl-3,6,9-dodecatriyne. A. I. Zakharova, G. D. Il'ina, and G. M. Murashov. J. Gen. Chem. U.S.S.R. 23, 1913-16 (1956) (Engl. translation). See C.A. 50, 8429c. B. M. R.

3

5

RM

Rukashov, G. M.

6

✓ Synthesis of branched triacetylenic hydrocarbons. Preparation of 2,2,5,5,8,8,11,11-octamethyl-3,6,9-dodecatriyne. A. I. Zakharova, G. D. Il'ina, and G. M. Murnashov (State Univ., Leningrad). *Zhur. Obshch. Khim.* 29, 1908-11 (1955); cf. *C.A.* 50, 4773i. — To EtMgBr (from 25 g. Mg) was added in 7 hrs. 82 g. Me₂CCl₂CH in Et₂O and after 30 hrs. at room temp., followed by refluxing until C₂H₄ evolution ceased; cooling, addn. of 2 g. Cu₂Cl₂ and 1 g. HgCl₂, followed by 80 g. (i-CCMe₂Cl)₂ in Et₂O, allowing to stand 30 hrs. and refluxing 4 hrs. and hydrolyzed with dil. HCl gave after 2 distns. 90% 2,2,5,5,8,8,11,11-octamethyl-3,6,9-dodecatriyne, b.p. 82-4°, n_D 1.47°, d₄ 0.7715, n_D²⁰ 1.4295, n_D²⁵ 1.4112(1), 1210(3), 1345(1), 1447(3), 2170(1), 2260(2), 2290(5), 2275(3). Ozonolysis of this gave Me₂CCO₂H and Me₂C(CO₂H)₂ identified as the Ag salts. Oxidation of the hydrocarbon with KMnO₄ failed to take place. Hydrogenation over Pd-CaC₂ gave the 2,2,5,5,8,8,11,11-octamethyl-dodecane, n. 37-8°. G. M. Kosolapoff.

③

11/11/55

✓ Synthesis of branched acetylenic hydrocarbons.
Preparation of 2,6,6-trimethyl-3,3-diisopropyl-4-heptyne

50, 11833g. —Addn. of 11 g. Mg , $\text{C}_2\text{H}_5\text{Cl}$ and 51 g. Pr_2CO in 50 ml. Et_2O to a well stirred suspension of 150 g. KOH in 200 ml. Et_2O at 0° in 8 hrs. gave, after aq. treatment on the following day, 75% $\text{Mg}_2\text{CC}_2\text{CC(OH)}$ ($\text{CH}_3\text{C}_2\text{H}_5$, b₇ 75.6°, d₄ 0.8306, d₂₀ 0.8334, n_D²⁰ 1.44142, n_D²⁵ 1.43990, n_D³⁰ 1.44743. This treated (in 5 g. portions) with dry HCl gave a hydrocarbon, b₇ 57.64°, described below, and 10% of a byproduct, b₇ 57.64°, which (26 g.) was added in Et_2O with cooling in 2 hrs. to iso- PrMgCl from 20 g. iso- PrCl , kept 12 hrs. and refluxed 2 hrs. after treatment with aq. HCl there was isolated after distn. from Na a mixt. of 2 substances, b₇ 55-6°, which after redistn. from activated C and silica gel finally gave 20% 2,6,6-trimethyl-3,3-diisopropyl-4-heptyne, b₇ 55°, d₄ 0.8374, d₂₀ 0.8206, n_D²⁰ 1.45307, n_D²⁵ 1.45513, n_D³⁰ 1.46514, whose Raman spectrum was (cm.⁻¹): 131.6(2), 250.6(1), 428.3(0.5), 553.2(0.5), 794.9(1), 904.7(3), 979.2(3), 1042(3), 1200.3(1), 1304.4(0.5), 1378.1(2), 1449.7(1), 2221.5(5), 2924.8(3), 2979.5(4). The hydrocarbon, mentioned above, was obtained as a byproduct in all the above steps and had the constants: b₇ 58.5°, d₄ 0.7936, d₂₀ 0.7778, n_D²⁰ 1.45183, n_D²⁵ 1.44887, n_D³⁰ 1.46060. The Raman spectrum (cm.⁻¹): 179.3(8), 234.6(3), 301.7(10), 420.5(1), 452.6(5), 548.9(1), 639.3(1), 701.3(1), 902.7(4), 925(2), 1012.0(1), 1202.5(4), 1614.6(10), 2220.6(10), 2525.7(1), 2553.5(1), confirmed its structure as 2,6,6-trimethyl-3-isopropyl-2-hepten-4-yne.

C. M. Kozlov

MURASHOV, G. M., Cand Chem Sci -- (diss) ^{"Organomagnesium"} ~~Organic~~
~~Syntheses~~ ^{Di-} of Highly ~~Ramified~~ ^{Tri-} Mono-, ~~Double~~ and ~~Triple~~
acetylenes." Len, 1958. 18 pp. (Len Order of Lenin State Univ
im A. A. ² ~~Shdanov~~), 150 copies (KL 40-58, 113)

5(3)

SOV/79-29-9-13/76

AUTHORS:

Murashov, G. M., Nefedov, V. D., Skorobogatov, G. A.,
Smirnov, V. M.

TITLE:

Investigation of the Synthesis Mechanism of Alcohols According
to Grignard by Means of Tagged O

PERIODICAL: Zhurnal obshchey khimii, 1959, Vol 29, Nr 9, pp 2864-2868 (USSR)

ABSTRACT:

As proven by A. N. Nesmeyanov and V. A. Sazonova (Ref 1), a hydrolysis of carbinolates must take place in the final stage of reaction in the synthesis of alcohols and carboxylic acids according to Grignard. Two entirely different reaction courses are possible in this connection. In the synthesis of alcohols the hydrolysis of carbinolates may occur either by the cleavage of the bond between the alkyl group and the oxygen atom:

$R-O-MgHal + HO^*H \longrightarrow R-O^*H + Mg(OH)Hal$ (I), or by the cleavage of the bond between the magnesium- and oxygen atoms

$R-O-MgHal + HO^*H \longrightarrow R-OH + Mg(O^*H)Hal$ (II). There are but scarce mentions in publications concerning the investigation of Grignard's reactions by the aid of isotopes (Ref 2). Some authors (Ref 3) consider a magnesium isotope exchange between the Grignard reagent and the magnesium halides to be possible;

Card 1/3

SOV/79-29-9-13/76

Investigation of the Synthesis Mechanism of Alcohols According to Grignard
by Means of Tagged O

still, the isotope exchange between CH_3MgBr and $\text{Mg}^{28}\text{Br}_2$, for example, did not yield any positive results (Ref 4). Finally, an investigation by means of deuterium was made of the reducing action of the Grignard reagent in the reduction of benzophenone in benzohydrol under the action of isobutyl magnesium bromide (Ref 5). Nothing has yet been published concerning the rearrangement of oxygen in the synthesis of alcohols and carboxylic acids. An attempt was made in the investigation under review to explain whether reaction (I) or (II) takes place in the hydrolysis of carbinolates. The initial step was the synthesis of triphenyl carbinol by the reaction of benzophenone with phenyl magnesium bromide (Scheme 3), and the hydrolysis of carbinolate of magnesium was shown to take place with the preservation of the alkyl-oxygen bond and with the separation of the metal-oxygen bond. The reaction water was investigated for O^{18} according to A. I. Brodskiy (Ref 7) in the mass spectrometer of type MS-1. There are 1 table and 11 references, 5 of which are Soviet.

Card 2/3

SOV/79-29-9-13/76

Investigation of the Synthesis Mechanism of Alcohols According to Grignard
by Means of Tagged O

ASSOCIATION: Leningradskiy gosudarstvennyy universitet
(Leningrad State University)

SUBMITTED: September 21, 1958

Card 3/3

MURASHOV, G.V.

Sbornik zadach i uprazhnenii po geografii dlia nachal'noi shkoly [Book of problems and exercises in geography for the elementary school]. Moskva, Uchpedgiz, 1952

SO: Monthly List of Russian Accessions, Vol. 6, No. 2, May 1953

MURASHOV, I.I. (Kirev)

Increasing precision in the manufacture of instruments. Izv.AN SSSR
Otd.tekh.nauk no.7:25-36 J1 '56. (MLRA 9:9)
(Measuring instruments)

L 35552-65 EWT(d)/EMP(e)/EMP(v)/T/EMP(k)/EMP(l) Pf-4
 S/0286/65/000/005/0074/0074
 ACCESSION NR: AP5008207

AUTHOR: Murashov, I. I.

TITLE: A device for testing gear wheels for kinematic precision in single-profile engagement. Class 42, No. 168895

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 5, 1965, 74

TOPIC TAGS: testing device, gear

ABSTRACT: This Author Certificate presents a device for testing gear wheels for kinematic precision in a single-profile engagement according to Author Certificate No. 118991, using a base with a stand, electromagnets, a load guaranteeing contact in single-profile engagement, and a center mandrel with the gear wheel being tested in single-profile engagement with a single-cut standard gear driven by a worm pair of an electric motor, the axis of which has a roller that transmits movement to a continuous tape of a recording device. For recording on paper tape the actual imprecision of the gear wheel, a lever is attached coaxially to the center mandrel (see Fig. 1 on the Enclosure). This lever has electrical contacts with sliding, frictional settings, allowing them to rotate freely with the mandrel. The electrical pulses are imparted to the electrode (button) of the

Card 1/3

L 35552-65

ACCESSION NR: AP5008207

recording device and through this to electrothermal paper (tape). Orig. art.
has: 1 figure.

ASSOCIATION: none

SUBMITTED: 13Mar63

ENCL: 01

SUB CODE: IE

NO REF SOV: 000

OTHER: 000

Card 2/3

MURASHOV, I. K.

PA 30740

USSR/Medicine - Wounds Jan 1947
Medicine - Cranium, Wounds and Injuries

"Surgical Aid for Craniocerebral Wounds," Maj I. K. Murashov, Medical Corps, 5 pp

"Hospital'noye Delo" No 1

General case histories of 1,464 patients who were treated by the author's detachment in the period Feb 1945 - Mar 1947. The greatest factor in reducing the number of deaths was the care given to the casualties in evacuation and the fact that the surgical stations were near the fronts, permitting rapid treatment of casualties. Describes the type of wounds which were handled and brief description of the care of the wounds.

12

30740

MURASHOV, I. K.

MUPASHOV, I. K.

Murashov, I. K. and Denisov, M. I. "Trauma in children," Trudy VI Vsesoyuz. s'yezda det. vrachey, posvyasch. pamyati prof. Filatova, Moscow, 1948, p. 454-59

SO: U-3264, 10 April 1953, (Letopis 'nykh Stateli, No. 3, 1949

I

MURASHOV, Y. K., Physician

Cand. Med. Sci.

Dissertation: "The P.A. Gertsen's Operation in Cases of Frontal Brain Hernia
With Modification of the Bone Patch into a Butterfly Shape and
Its Anatomical Substantiation."

16/1/50

Second Moscow State Medical Inst. imeni

I. V. Stalin

SO Vecheryaya Moskva
Sum 71

MURASHOV, I. K.

Fetus - Diseases

Two cases of meconium peritonitis. *Pediatria*, No. 2, 1952

Monthly List of Russian Accessions, Library of Congress, August 1952. UNCLASSIFIED.

MURASHOV, I.K., kandidat meditsinskikh nauk; TERNOVSKIY, S.D., professor, direktor.

Perforation of the stomach following poisoning with sulfuric acid in a child. Khirurgiia no.3:70 Mr '53. (MLRA 6:6)

1. Klinika detskoy khirurgii II Moskovskogo meditsinskogo instituta imeni I.V. Stalina. (Sulfuric acid) (Stomach)

MURASHOV, I.K.

~~Anterior~~ anterior cerebral hernias and their surgery according to Gertsen-Ternovskii's method. Vest. otorinolar., Moskva 15 no.3:12-15 May-June 1953.

(CJML 25:1)

1. Docent. 2. Of the Clinic for Pediatric Surgery (Director -- Prof. S. D. Ternovskiy) of Second Moscow Medical Institute imeni I. V. Stalin located at Moscow Clinical Children's Hospital imeni N. F. Filatov.

MURASHOV, I.K., kandidat meditsinskikh nauk (Moscow); TERNOVSKIY, S.D., professor, direktor; KVITNITSKAYA, V.V. glavvrach.

Anatomic basis for S.D. Ternovskii's modification of the operation for anterior cerebral hernia. Vop.neirokhir. 17 no.2:53-55 Mr-Apr '53.
(MLRA 6:5)

1. Klinika detskoy khirurgii II Moskovskogo meditsinskogo instituta imeni I.I. V. Stalina na baze Moskovskoy klinicheskoy detskoy bol'nitsy imeni N.F. Filatova (for Ternovskiy). 2. Moskovskaya klinicheskaya detskaya bol'nitsa imeni N.F. Filatova (for Kvitnitskaya). (Encephalocele)

MURASHOV, I.K., dots.

Combined defects in abnormal development of the rectum and anus.
Khirurgia 32 no.10:56-58 O '56 (MIRA 12:7)

1. Iz kliniki detskoy khirurgii (zav. - prof. S.D. Ternovskiy)
II Moskovskogo meditsinskogo instituta imeni I.V. Stalina na baze
Moskovskoy klinicheskoy detskoy bol'nitsy imeni N.F. Filatova
(glavnyy vrach M.N. Kalugina).

(RECTUM, abnorm.

surg. atresia, recto-anal, surg. in child)

(ANUS, abnorm.

atresia, anorectal, surg. in child)

MURASHOV, I.K., dotsent

Cysts of the common bile duct. *Pediatria* 39 no.4:74-78 J1-Ag '56.
(MIRA 9:12)

1. Iz kliniki detskoy khirurgii (dir. - prof. S.D.Ternovskiy) II
Moskovskogo meditsinskogo instituta imeni I.V.Stalina, na base
Moskovskoy klinicheskoy detskoy bol'nitsy imeni N.F.Filatova
(glavnyy vrach M.N.Kalugina)
(BILE DUCT, COMMON, cysts
surg.)

MURASHOV, I. K. Doc Med Sci -- (diss) "Irregularities in the ^{Development} ~~Development~~ of the Rectum and Anus in Children, and ^{the Treat-} ~~Treat-~~ ment of them." ~~Therapy~~ Mos, 1957. 19 pp 20 cm. (Second Mos State Medical Inst im I. V. Stalin) (KL, 26-57, 112)

- 104 -

MURASHOV, I.K.
MURASHOV, I.K., dotsent

Treatment of malformations of the rectum and anus in children
[with summary in English]. Khirurgiia 33 no.6:83-87 Je '57.
(MIRA 10:12)

1. Iz kliniki detskoy khirurgii (zav. - prof. S.D.Ternovskiy) II
Moskovskogo meditsinskogo instituta imeni I.V.Stalina na baze
Moskovskoy klinicheskoy detskoy bol'nitsy imeni N.F.Pilatova
glavnyy vrach M.N.Kalugina)

(ANUS, abnorm.

atresia, surg. in child.)

(RECTUM, abnorm.

same)

MURASHOV, I.K., dotsent

Plaster of Paris bondage in surgery on the perineum in children
Khirurgiia 35 no. 5:121-122 My '59. (MIRA 13:10)

1. Iz kliniki detskoy khirurgii (dir. - prof. S.D. Ternovskiy)
II Moskovskogo meditsinskogo instituta im. N.I. Pirogova na
baze Moskovskoy klinicheskoy detskoy bol'nitsy im. N.F. Filatova
(glavnyy vrach M.N. Kalugina).
(PERINEUM—SURGERY) (PLASTER CASTS, SURGICAL)

MURASHOV, I. K. (Moskva, Strastnoy bul'var. d. 7, kv. 12);
STEPANOV, E. A.

Immature neurogenic tumors of the mediastinum in children. Grud.
khir. 4 no.3:74-80 My-Je '62. (MIRA 15:7)

1. Is kliniki khirurgii detskogo vozrasta II Moskovskogo meditsinskogo instituta imeni N. I. Pirogova (sav. I. K. Murashov)
na baze Detskoy bol'nitsy imeni N. F. Filatova (glavnyy vrach
L. A. Vorokhobov)

(MEDIASTINUM—TUMORS)

MURASHOV, K.; POPOVA, Ye.

Training procurement specialists by correspondence courses in
higher education. Muk.-elev. prom. 27 no.10:27-28 0. '61.
(MIRA 14:12)

1. Vsesouznyy zaochnyy institut pishchevoy promyshlennosti.
(Product grade--Study and teaching)

MURASHOV, K.I., inzhener.

Paint sprayer with exchangeable plates. Nov.tekh.i pered.op.v
stroil. 19 no.4:32 4p '57. (MIRA 10:7)
(Spray painting)

Y 41319-85 EWT(1)/EWT(m)/T/EWP(t)/REC(b)-2/EWP(b)/EWA(c) P1-1 IJP(c)
 S/0181/65/007/002/0645/0647 26
 ACCESSION NR: AP5005317 JD/GG 25
 3

AUTHOR: Gippius, A. A.; Vavilov, V. S.; Goncharov, L. A.; Murashov, M. S.

TITLE: Radiative recombination in crystals of germanium with a large dislocation density 27

SOURCE: Fizika tverdogo tela, v. 7, no. 2, 1965, 645-647

TOPIC TAGS: radiative recombination, dislocation, germanium

ABSTRACT: The mechanism of radiative recombination on dislocations proposed earlier by two of the authors (Gippius, A. A., and V. S. Vavilov, Fizika tverdogo tela, 6, 1964, 2361) has been laboratory tested and experimentally confirmed. The measurements were performed on two series of germanium samples; one contained crystals with dislocations concentrated on crystal faces corresponding to planes {110} and the other, crystals with dislocations chaotically distributed. The spectra of the samples from the first series were characterized by a strong component at the 2.4-micron wavelength, which was not observed in the spectra of the second series. It is stated that, because the dislocations concentrated on crystal faces have a tendency to form networks made up of intersecting rows of dislocations, "radiative nodes" form at their intersections and are responsible

Card 1/2

L 41309-65

ACCESSION NR: AP5005317

for the 2.4-micron wavelength component. The dependence of the intensity of the dislocation band on the density of dislocations proved to be analogous to the dependence of intensity on the injection current, both curves leveling after reaching a saturation value. This is also explained by transitions of radiative centers connected with dislocations. Orig. art. has: 1 figure. [ZL]

ASSOCIATION: Fizicheskiy institut im. P. N. Lebedeva AN SSSR, Moscow (Physics Institute, AN SSSR)

SUBMITTED: 19Aug64

ENCL: 00

SUB CODE: SS, GC

NO REF SOV: 002

OTHER: 005

ATD PRESS: 3209

Card 02
2/2

MURASHOV, M. V.

Mbr., Moscow Peat Inst., -c1948-.

Engr., Chair of Peat Mechanics, MTI, -c1949-.

"The Throwing Off of Material From the Sheave of a
Belt Conveyer," Torf. Prom., No. 5, 1948;

"Surface of a Screw-Conveyer Proposed by A. M. Gri-
gor'yev," ibid., No. 6, 1948;

"Computations of the Cross-section of Beams in the
Type BEM Excavating Equipment," ibid., No. 3, 1949.

1ST AND 2ND ORDERS		PROCESSES AND PROPERTIES INDEX	
3722. BUCKET ARRANGEMENT ON B.E.M. EXCAVATOR. <u>Marashov, N. V.</u> (Tosfennaya Promyshlennost, 1949, (6), 22-24). (L).			
438-354 METALLURGICAL LITERATURE CLASSIFICATION			
COMMON SYNONYMS		RELATIONS	
COMMON SYNONYMS		RELATIONS	

MIRASHOV, M. I. (Ingr)

MIRASHOV, M. I. (Ingr) -- "Problem of Estimating the Efficiency of Long
Peat Transport Conveyors." Doc. 1: 10 p. 12, Moscow. Peat Inst. (Dissertation
for the Degree of Candidate in Technical Sciences).

SO: Vechernaya Moskva, January-September 1962

MURASHOV, M. V.

Caterpillars (Vehicles)

Calculating the principal frame of a caterpillar drive with rigid suspension.
Torf. prom. 30, No. 3, 1953.

9. Monthly List of Russian Accessions, Library of Congress, June 1953. Unclassified.

MORASHOV, M.V., kandidat tekhnicheskikh nauk.

Specific pressure under the caterpillar tread of a moving machine. Torf.
prom. 30 no.6:27-28 Ja '53. (MLRA 6:5)

1. Moskovskiy torfyanoy institut.

(Caterpillars)

MURASHOV, M.V., kandidat tekhnicheskikh nauk.

Stability of track-laying machines on the peat bog. Trudy Inst.
torf. AN BSSR 4:230-250 '55. (NLRA 9:3)

(Peat machinery) (Soil mechanics)

MURASHOV, M.V., kandidat tekhnicheskikh nauk.

Relation of the parameters of peat machines to allowable soil
pressure. Torf.prom.33 no.2:31-34 '56. (MLBA 9:6)

1. Moskovskiy torfyanoy institut.
(Peat machinery)

MURASHOV, M. V., kand.tekhn.nauk

Method of reading graphs recorded by electric instruments. Torf.
prom. 37 no.7:11-14 '60. (MIRA 13:11)

1. Kalinskiy torfyanoy institut.
(Peat industry)

SOLOPOV, Sergey Georgiyevich, prof., doktor tekhn.nauk; MURASHOV,
Mikhail Vasil'yevich, dots., kand. tekhn. nauk; MIRKIN,
Mikhail Abramovich, inzh.[deceased]; ANISIMOV, Pavel
Fedorovich, kand. tekhn. nauk; GORTSAKALYAN, Loris
Oganesovich, kand. tekhn. nauk; NAZHESTKIN, Boris Petrovich,
kand. tekhn. nauk; PESKOV, Vladimir Glebovich, kand. tekhn.
nauk; SAMSONOVA, M.T., red.izd-va; YEZHOVA, L.L., tekhn.red..

[Peat machines; their theory, calculation, and design] Torfia-
nye mashiny; teoriia, raschet i konstruirovaniye. [By] S.G.Solopov
i dr. Moskva, Vysshaya shkola, 1962. 353 p. (MIRA 16:3)
(Peat machinery)

MIRASHOV, M.V., kand.tekhn.nauk; DENISOV, V.N., inzh.

The placing of irrigation equipment. Nov. tekhn.znii.-khoz.
khoz., Blagoustr.gor. no. 2:54-59 '62. (MIRA 17:56)

MURASHOV, M.V.; OREKHOV, O.I.

Selecting the working member of city rotary snowplows. Nauch.
trudy AKKH no.32:56-68 '64. (MIPA 19:1)

1. MURASHOV, N.
2. USSR (600)
4. Mogilev Province - Afforestation
7. Introducing the Manchurian walnut and Amur cork tree into cultivation in Mogilev Province. Les. khoz. 6, No. 3, 1953.
9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

MURASHOV, N.A.; VOIKOVITSER, V.I.

Nutrient balance in Solonetz soils of Baraba under different
methods of cultivation. Trudy Biol. inst. Sib. otd. AN SSSR
no. 9:99-106 '62 (MIRA 17:8)

MURASHOV, N.A.

Effect of deep subsoil plowing on the properties of high columnar Solonetz soils of northern Kulunda. Trudy Biol. inst. Sib. otd. AN SSSR no.9:118-126 '62 (MIRA 17:8)

SHAPOVALOV, V.P.; MURASHOV, N.A.

Intensiveness of the decomposition of the sod of old fallows in
northern Kulunda. Trudy Biol. inst. Zap.-Sib. fil. AN SSSR no.3:149-
154 '57. (MIRA 13:10)
(Kulunda Steppe--Soils)

SHAPOVALOV, V.P.; MURASHOV, N.A.

How cultivation methods and time effect nutrient and moisture
dynamics in old Chernozem waste lands of northern Kulunda. Trudy
Biol. inst. Zap.-Sib. fil. AN SSSR no.3:155-163 '57. (MIRA 13:10)
(Kulunda Steppe--Soils)

MURASHOV, N.A.

MURASHOV, N.A.

Changes in the agrochemical properties of the northern Kulunda
Solonetz soils with a medium deep column structure during their
cultivation. Izv.vost.fil.AN SSSR no.4/5:195-202 '57.
(MLRA 10:9)

1. Zapadno-Sibirskiy filial Akademii nauk SSSR.
(Kulunda Steppe--Solonetz soils)

ORIG. LANG. : RUSSIAN
 TITLE : Soil science. Soil ecology.
 AUT. NAME : KODAR SL., No. 1 1959, No. 1013
 AUTHOR : Murezhov, N. A.
 TITLE : Effect of the Sling of Magnesium Casting on the
 Biochemical properties of Torf-Podsols soils
 ORIG. LANG. : Uzbreniya i urzhav, 1959, No. 1, 27-37
 ABSTRACT : The sling of magnesium casting is a solid alloy. It is used
 in agriculture. The following enter its composition: Mg, Fe,
 Al, Si, Mn, Zn and other elements. When the sling is cast into
 the soil, the biological processes of the soil are changed.
 In particular, the processes of nitrification and denitrification
 are intensified, the processes of humification are intensified,
 the activity of the soil enzymes is increased; Mg intensifies the
 growth of plants. The amount of organic matter in the soil
 also contributes to the increase in the yield of agricultural
 crops. The work was carried out in the Institute of Soil Science
 of the Moscow State University. -- P. A. Hoshkov

Q. 1/3

USSR/Soil Science - Mineral Fertilizers.

J

Abs Jour : Ref Zhur Biol., No 22, 1958, 100079

degree the harvest and yield of saccharose in the fodder best and substantially increased the clover harvest at the application of doses from 0.75 to 5.6 t/ha. The harvest and yield of starch in potatoes and the harvest of the blue lupine at the application of large doses of slag (3-5 t/ha) decreased and at the application of small doses (0.75-1.5 t/ha) exceeded or approximated the harvest at the application of dolomite flour or tuff. Slag doses (1.5-6 t/ha) had little effect on the size of the grain addition in spring wheat. It was lower than the addition at the application of other lime fertilizers. The action of the dolomite powder on the clover harvest was identical with the action of dolomite flour or chalk. The fodder-beet harvest at the application of dolomite powder increased, whereas the potato and lupine harvests decreased in comparison with the latter. The dolomite powder in the first year of application acted better than

Card 2/3

- 63 -

MURASHOV, N. A., Cand Agr Sci -- (diss) "Effectiveness of magnesium-containing calcareous industrial waste products upon various agricultural crops." Mos, 1958. 21 pp (All-Union Order of Lenin Agr Acad im V. I. Lenin, All-Union Sci Res Inst ~~for~~ of Fertilizers and Agricultural Soil Science VIUA), 150 copies (KL, 35-58, 109)

L 10501-65 EEO-2/EWT(1)/EED-2 Pn-4/Pae-2/Pl-4 IJP(c)/SSD/AFTC(b)/AFWL/
 ACCESSION NR: AR 4046020 ESD(t)/RAEM(t) CC 8/0274/64/060/007/BO40/BO40 24
 0

SOURCE: Ref. zh. Radiotekhnika i elektrosvyaz'. Svodnyy tsm. Abs. 7B239

AUTHOR: Murashov, N. I.; Shnyrev, G. D.

TITLE: Infrared TV microscope for determining structure defects in semiconductor crystals 10

CITED SOURCE: Sb. Metod fotoelektr. infrakrasn. polyariskopii i defektoskopii poluprovodnik. materialov. M., 1962, 40-43

TOPIC TAGS: microscope, TV microscope, infrared TV microscope, semiconductor crystal, crystal defect 25B

TRANSLATION: An experimental model of the TV microscope has been designed on the basis of PTU-OM industrial TV set. High-gain, low noise pre- and final video amplifiers have been developed. LI-405 vidicon is used as a camera tube. The set permits observation of patterns of birefringence, impurity-decorated dislocations, and other inhomogeneities in Se and Ge crystals.

SUB CODE: EC

ENCL: 00

Card 1/1

ACCESSION NR: AR4044003

S/0058/64/000/006/EO49/EO49

SOURCE: Ref. zh. Fizika, Abs. 6E367

AUTHOR: Murashov, N. I.; Shnyrev, G. D.

TITLE: An infrared television microscope to determine structural flaws in semiconductor crystals

CITED SOURCE: Sb. Metod fotoelektr. infrakrasn. polyariskopii i defektoskopii poluprovodnik. materialov. M., 1962, 40-43

TOPIC TAGS: structural flaw, semiconductor crystal, IR TV microscope, video amplifier, TV microscope

TRANSLATION: There is created a prototype infrared TV microscope using an industrial television installation PTU-OM. There have been developed video-amplifier units to assure a high amplification factor with low noise level. An LI-405 videcon serves as the transmission tube. Using this installation it was possible to observe the distribution of birefringence, dislocations embellished with

Card 1/2

ACCESSION NR: AR4044003

impurities, and other heterogeneities in Si and Ge crystals.

SUB CODE: EC, SS

ENCL: OO

Card 2/2

AUTHOR: Murashov, S.I., Dotsent

3-58-3-10/32

TITLE: The Scope of Scientific Interests of a Collective Body is Being Defined (Opredelyayetsya krug nauchnykh interesov kollektiva)

PERIODICAL: Vestnik Vysshey Shkoly, 1958, Nr 3, pp 42 - 45 (USSR)

ABSTRACT: The Chair of Marxism-Leninism of the Moscow Power Engineering Institute consists of 26 historians and 10 philosophers. A group of these instructors have been studying the activity of the Communist Party during WW I and the February Revolution while another group devoted its studies to the "KPSS as an Organizer of the Electrification of the USSR". The author explains how the studies are being conducted and how the scientific research becomes organically connected with the teaching and methodical work of the chair. In this connection the Candidates of Historical Sciences M.Ya. Sitnikova and M.Z. Ol'khovskiy, also of Z.V. Parkhomenko, are mentioned. The Dotsents P.A. Kazanskiy, A.S. Smirnov, S.M. Gasoyan and the Candidate of Philosophical Sciences Ye.A. Lekhner are mentioned as having introduced innovations in instruction. Professor G.S. Vasetskiy delivered a lecture "On the Struggle of the United Polish Labor Party With Revisionism". There is 1 Soviet reference.

Card 1/2

3-58-3-10/12

The Scope of Scientific Interests of a Collective Body is Being Defined

ASSOCIATION: Moskovskiy energeticheskiy institut (Moscow Power Engineering
Institute)

AVAILABLE: Library of Congress

Card 2/2

KAZANSKIY, P.A.; MURASHOV, S.I.; VERKHOTSEV, I.P., red.; POPOVA, T.,
tekhn.red.

[Light over Russia; studies on the history of electrification
in the U.S.S.R.] Svet nad Rossiei; ocherki po istorii elektri-
fikatsii SSSR. Moskva, Gos.izd-vo polit.lit-ry, 1960. 398 p.
(MIRA 13:9)

(Electrification)

MURASHOV, S.I., prof.; BROMBERG, L.M., kand.istor.nauk, dotsent; PRUZNER,
S.L., kand.tekhn.nauk, dotsent

Along the Leninist path in the plan of the State Commission for
the Electrification of Russia down to the overall electrification
of the country. Trudy MEI no.33:5-40 '60. (MIRA 15:3)
(Electrification)

MURASHOV, V.A., red.; KALASHNIKOV, V.P., tekhn. red.

[Regulations for street traffic in Moscow] Pravila ulichnogo
dvizheniya po gorodu Moskve. [Moskva] Mosk. pravda, 1956. 143 p.
(MIRA 11:10)

1. Moscow. Gorodskoy soviet deputatov trudyashchikhaya.
(Moscow—Traffic regulations)

MURASHOV, Y.A.; MITLIN, A.M.

Regulation of the street traffic in the city of Moscow and ways of
improving it. Gor.khoz.Mosk. 33 no.9:37-40 S '59. (MIRA 12:11)
(Moscow--City traffic)

Murashov, U.I.

penultimate

MASHAY, K. I. - "Dimensional tolerances of heavy elements" (Session IV)
 MELNYA, Ya. I. - "Research on conditions of work and ultimate state of steel frames of industrial buildings" (Session II)
 MOK, O. Ya. - "Research on the concrete strength theory" (Session II)
 BOGDANOV (fnu) (probably Nikolay M. Bogdanov) and KULISOV (fnu) - "General regulations adopted in new 'Instructions on design, erection and maintenance of flat roofs in the USSR' and the result of recent investigation of flat roof structures in the USSR" (Session VI)
 BOKISHANSKIY, M. S. - "Resistance of reinforced concrete members to the effect of transverse forces" (Session II)
 GUMENY, A. A., Prof. Dr. - "Present state and problems of design of building structures" (Session II)
 KUCHENOV, Grigoriy F., Prof. - "Eastern European experience" (Session IV)
 KUCHENOV, M. V., and UCHENOV, F. V. - "Problems of joining heavy elements in precast dwellings" (Session IV)
 KUCHENOV, V. I., Prof. Dr. - "Resistance to cracking and stiffness of reinforced concrete members" (Session II)
 OVSYANNIK, V. I., Prof., President of Session II, also scheduled to present a paper in Session II, title not given. Member of the Steering Committee for the Congress.
 SEMAKOV, Aleksey R., Prof. Dr. - "Design of carrying capacity of slabs and shells by the limit balance method" (Session II)
 SHAYD, F. P., GUMENY, A. A., Prof. Dr., and YERIN, S. A. - "Stability of multi-story buildings of heavy elements" (Session IV)

reports to be submitted for the Intl. Congress and Third General Assembly,
 Intl. Council for Building Research, Studies and Documentation, Rotterdam,
 Netherlands, 11-25 May 1979.

MURASHOV, V.I.; SHLIOMOVICHUS, Ya. I.

Changes in the manifestation of rock pressure in working coal seams with preliminary wetting. Fiz.-tekhn. probl. razrab. pol. iskop. no.5:20-28 '65. (MIRA 19:1)

1. Vostochnyy nauchno-issledovatel'skiy institut po bezopasnosti rabot v gornoy promyshlennosti, Kemerovo.

MURASHOV, Ye.F. (District Head Veterinary Doctor), KLEOPATSKIY, V.A. (Head Veterinary Doctor of an Experimental Model Farm, Novotorzh District, Kalinin Oblast').

"The work of veterinary specialists at an experimental model farm..."
Veterinariya, vol. 39, no. 3, March 1962 pp. 13

L 31988-66

ACC NR: AT6012889

SOURCE CODE: UR/0000/65/000/000/0094/0111

AUTHOR: Dadashev, R.S.; Murashov, Ye. N.

ORG: none

TITLE: The feasibility of solving diagnostic problems of the human functional state using computers

SOURCE: Sistema chelovek i avtomat (Man-machine systems). Moscow, Izd-vo Nauka, 196 , 94-111

TOPIC TAGS: computer application, man machine communication, diagnostic medicine, human ailment, *PHYSIOLOGIC PARAMETER, DIAGNOSTIC INSTRUMENT*

ABSTRACT: An objective evaluation of complex human functional states requires knowledge of a large number of simultaneously fixed values for physiological parameters and consists of two parts. 1) In order to evaluate the condition of patients, the accumulated clinical data should be processed according to physiological parameters, combining the results obtained according to individual parameters into symptom complexes which should serve as the basis of automatic diagnosis. 2) In cases where there are no clinical experimental data for the evaluation of the complex condition of the man-operator, probability methods should be applied. The present article is divided into two parts. The first part examines the method of statistical processing of physiological parameters, the results of which may

Card 1/2

I 31988-66
ACC NR: AT6012889

be incorporated into the memory cells of computers for automatic statement of the diagnosis. The second part is devoted to the probabilistic methods, in which the computer itself, with a small number of experiments, produces domains of state (regions of the symptom complex of the physiological parameters), and during the diagnosis compares the "current" state with the automatically derived domains of state. It is concluded that automatic diagnosis of the functional state makes it possible not only to control the "current" human state, but, with a specific degree of probability, to predetermine the appearance of some state, thus providing an opportunity to avoid extreme situations in time. The future development of a man-diagnostic machine-man closed system will make it possible to affect directional control of the human state. Orig. art. has: 2 figures, 2 tables, and 13 formulas. [08]

SUB CODE: 06, 09 / SUBM DATE: 02Aug65 / ORIG REF: 003 / A TD PRESS: 512 /

Card 2/2 LC

L 36506-65 EWA(h)/EWT(1) Feb GG

ACCESSION NR: AT5004672

S/3128/64/000/001/0139/0150 14

AUTHOR: Zhernov, V. S.; Murashov, Ye. P.; Ryzhov, N. V.;
Serzhantov, A. P. 12
B+1

TITLE: Electronic switch 25

SOURCE: Yadernoye priborostroyeniye; nauchno-tekhnicheskiy sbornik, no. 1,
1964, 139-150

TOPIC TAGS: electronic switch

ABSTRACT: The development of a transistorized electronic switch is reported. The switch is intended for converting several slow-varying d-c voltages into proportional-amplitude pulses and combining these pulses for a common load. It is assumed that all N d-c voltage sources are independent and have an internal impedance of up to 100 kohms. The voltage may vary within 0.005--5 v. The switch comprises (see Enclosure 1) voltage-to-pulse converters K_1, K_2, K_N , a

Card 1/3

L 36506-65

ACCESSION NR: AT5004672

2

clock-pulse generator G, a distributor that sends clock pulses to individual converters, and a matching circuit which combines the resulting pulses. An inverse-connected n-p-n Si transistor (P103) is used in the converter. The clock-pulse generator has a conventional blocking-generator circuit; its frequency varies by $\pm 20\%$ with temperature within $-10+50^{\circ}\text{C}$. The ferrite-transistor distributor circuit is equipped with a noise filter. The matching circuit includes a common-base stage and an emitter follower; the circuit was tested with 50 converters at $-10+50^{\circ}\text{C}$. "In conclusion, the authors wish to thank V. M. Skatkin for his help in solving some problems, and I. S. Krashennikov for a useful discussion." Orig. art. has: 9 figures and 20 formulas.

ASSOCIATION: none

SUBMITTED: 00

ENCL: 01

SUB CODE: EC

NO REF SOV: 003

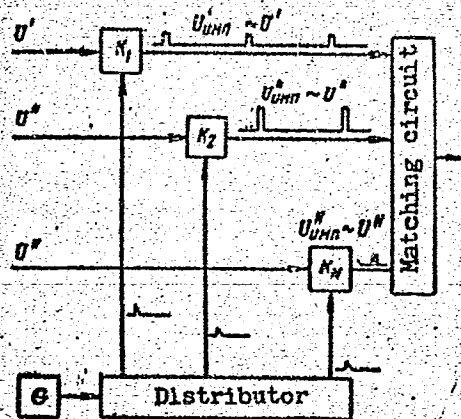
OTHER: 002

Card 2/3

L 36506-65

ACCESSION NR: AT5004672

ENCLOSURE: 1



An electronic switch for combining
several d-c voltages

Card 3/3

I. 36505-65 EWA(h)/EWT(1) Feb

ACCESSION NR: AT5004673

S/3128/64/000/001/0151/0159

AUTHOR: Zhernov, V. S.; Murashov, Ye. P.; Nabatnikov, A. A.

TITLE: Pulsed linear-logarithmic amplifier

SOURCE: Yadernoye priborostroyeniye; nauchno-tekhnicheskiy sbornik, no. 1, 1964, 151-159

TOPIC TAGS: logarithmic amplifier

ABSTRACT: The input signal is simultaneously applied to n amplifier-limiters which have their different gains and one output-signal-limiting threshold (the system suggested by J. Crony; also see S. I. Solms. Logarithmic Amplifier Design. IRE Trans., Instrum. 1-8, 3, 91, 1959). The development of a semi-conductor log amplifier consisting of three units with input voltages of 5-50, 50-500, and 500-5000 mv and an output voltage within 0.1-2.8 v is reported. Principal circuits are shown and explained. An experimental model showed a

Card 1/2

L 360505-65

ACCESSION NR: AT5004673

2

front-rise time of 2 μ sec on a square pulse without any drooping of the 20- μ sec pulse top. At a 2.5-kc input-pulse frequency, the input impedance was 10 kohms or higher, and the output impedance, 150 ohms or lower. The temperature error was roughly 0.1% per 1C within -40+60C. The amplifier proved sensitive to supply-voltage ripples. "In conclusion, the authors wish to thank S. I. Zharova for her help in experimentation work, and B. I. Khazanov for his criticisms." Orig. art. has: 8 figures and 6 formulas.

ASSOCIATION: none

SUBMITTED: 00

ENCL: 00

SUB CODE: EC

NO REF SOV: 005

OTHER: 001

Card 2/2

L 36507-65 EWT(d) Pg-4/Pk-4/Pl-4/Po-4/Pq-4

ACCESSION NR: AT5004674

S/3128/64/000/001/0160/0165

33

AUTHOR: Zhernov, V. S.; Murashov, Ye. P.; Nabatnikov, A. A.

3.
B+1

TITLE: Linear count-rate meter covering three orders of magnitude

SOURCE: Yadernoye priborostroyeniye: nauchno-tekhnicheskiy sbornik, no. 1, 1964, 160-165

TOPIC TAGS: intensimeter, count rate meter 0

ABSTRACT: The development of a modification of the count-rate meter of G. Gianelli, et al. (Rev. Sc. Instr., 31, 6, 623, 1960) is briefly reported. The modification differs in that the normalizer pulse is taken from the emitter of a blocking-generator transistor, not from the additional winding of its transformer. This permits obtaining a considerable pulse power with still satisfactory resolution (10-20 μ sec) of the normalizer within an entire three-order range of pulse rates (0.5-5000 pulse/sec). A variant of the pulse-rate-difference meter

Card 1/2

L 36507-65

ACCESSION NR: AT5004674

was also developed. "In conclusion, the authors wish to thank B. I. Khazanov for a useful discussion of the results." Orig. art. has: 5 figures and 1 formula.

ASSOCIATION: none

SUBMITTED: 00

ENCL: 00

SUB CODE: NP, EC

NO REF SOV: 002

OTHER: 001

Card 2/2

L 38898-66 EWT(16)

ACC NR: AP6029716

SOURCE CODE: UR/0089/66/020/001/0082/0084

AUTHOR: Zhernov, V. S.; Murashov, Ye. P.; Ryzhov, N. V.; Skatkin, V. M.

ORG: none

TITLE: Multipoint control of radiation levels

SOURCE: Atomnaya energiya, v. 20, no. 1, 1966, 82-84

TOPIC TAGS: radiation measurement, nuclear safety, automatic control system

ABSTRACT: The tendency toward centralization and automation of control systems extends to the continuous collection of radiation dose data from operating personnel while working. Cathode-ray tubes were found suitable for such centralized collection of radiation safety information. Continuous and simultaneous indication of the radiation levels from several locations, e.g., in the form of vertical lines, the lengths of which are proportional to the dose level, allows a rapid and convenient survey of the situation at any given moment. The system requires suitably placed individual senders, connection systems, and a central control room provided with amplifiers and scanners. A multichannel count-rate device is used, with a linear, rather than logarithmic measuring system. Care was taken to eliminate interaction between channels. The authors thank B. V. Nemirovskiy for useful advice and A. P. Serzhantov for assisting the authors in the working of the multichannel count-rate device. Orig. art. has: 1 figure and 1 formula. [NA]

SUB CODE: 18 / SUBM DATE: 01Oct65 / ORIG REF: 005

Card 1/1/112P

0918 0194

ACC NR: AP7001386

(A,N)

SOURCE CODE: UR/0413/66/000/021/0056/0056

INVENTORS: Denisov, M. I.; Zhernov, V. S.; Nabatnikov, A. A.; Murashov, Ye. P.;
Ryashov, N. V.; Serzhantov, V. P.; Skatkin, V. M.

ORG: none

TITLE: Multichannel pulse counting rate meter. Class 21, No. 187843 [announced by
Union Scientific Research Institute for Instrument Manufacture (Soyuznyy nauchno-
issledovatel'skiy institut priborostroyeniya)]

SOURCE: Izobreteniya, promyshlennyye obraztsey, tovarnyye znaki, no. 21, 1966, 56

TOPIC TAGS: pulse counter, pulse rate, count rate meter

ABSTRACT: This Author Certificate presents a multichannel pulse counting rate meter containing a cathode ray tube, pulse registers, a high-speed electronic switch, and a vertical and horizontal deflection amplifier for the cathode ray tube. To measure counting rate differences varying over a wide range simultaneously in all channels without switching subranges, electronic commutator switches are connected to the outputs of wide-band linear differential counting rate meters, one for each channel (see Fig. 1). The switch outputs are connected through current-setting resistors and isolating capacitors to the input of a collecting stage consisting of a grounded base transistor. The output of the collecting stage is connected to the input of a linear-logarithmic CRT vertical deflection amplifier.

Card 1/2

UDC: 621.74

ACC NR. AP7001386

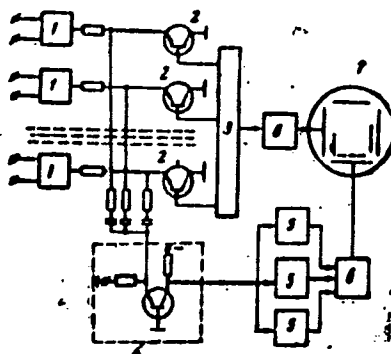


Fig. 1. 1 - counting rate meters; 2 - switches;
3 - decoder; 4 - electronic commutator; 5 - clipper
amplifiers; 6 - summing stage; 7 - cathode ray
tube; 8 - horizontal deflection amplifier

Orig. art. has: 1 diagram.

SUB CODE: 09/ SUBM DATE: 22Nov63

Card 2/2

L 06579-67 EWP(k)/EWT(d)/EWT(l)/EWP(h)/EWP(l)/EWP(v) FDN/VW

ACC NR: AP6033509

SOURCE CODE: UR/0413/66/000/018/0140/0140

INVENTOR: Murashov, Yu. A.; Ivanov, B. S.

ORG: none

TITLE: Bellows safety valve. Class 47, No. 186237

SOURCE: Izobret prom obraz tov zn, no. 18, 1966, 140

TOPIC TAGS: aircraft fuel system, aircraft fuel tank, fuel tank safety valve, safety valve, high pressure valve

ABSTRACT: The proposed safety bellows valve, such as one used in aircraft fuel tank pressurization systems, is provided with an auxiliary valve with a vent from the cavity under the bellows of the main valve to the atmosphere which is activated when the maximum pressure gradient is reached (see Fig. 1). In order to increase the sensitivity of the safety valve to the regulated pressure gradient, the auxiliary valve is built into the bellows valve and is controlled by a membrane, activated by the regulating pressure gradient. Orig. art. has: 1 figure.

[WA No. 76]

Card 1/2

UDC: 621.646.88